



How to Fund Energy Conservation Projects at Arizona, Nevada, and Hawaii Wastewater Treatment Facilities

There is help from federal, state, and private sources!

Upgrading a facility can be a problem when you don't know about funding solutions. Financial assistance provided by federal, state, and private sources can make efficiency affordable and practical. The federal government provides grants, loans, and rebates. State governments provide various incentives for energy conservation. Local utility districts also provide private sources of funding as do private third-party leasing arrangements and pooled bond financing.

Federal and State Sources

Federal sources of funding for medium and large utilities are primarily awarded through the U.S. Department of Energy (DOE), which offers grants, low interest loans, and rebates as incentives for installing cogeneration systems. Arizona, Hawaii, and Nevada state governments offer low interest loans through the state clean water state revolving fund.



FEDERAL

DOE Climate Change Technology Program:

www.climatetechnology.gov/opportunities/index.htm

DOE Energy Efficiency and Renewable Energy Financing Opportunities:

www1.eere.energy.gov/financing/business.html

DOE Renewable Energy and Production Incentive:

www.eere.energy.gov/repil/

DOE Loan Guarantee Program:

www.lgprogram.energy.gov/

DOE Tribal Energy Program:

<http://apps1.eere.energy.gov/tribalenergy/>

USEPA Air grants:

www.epa.gov/air/grants

ARIZONA

AZ State Revolving Fund:

www.azwifa.gov

AZ Waterboards SRF:

Jon Bernreuter – (602) 364-1310

HAWAII

Hawaii State Revolving Fund:

<http://hawaii.gov/health/environmental/water/wastewater/cwsrf.html>

Honolulu Municipal Bond:

www.votesolar.org/honolulu.html

HI Waterboards SRF:

April Matsumura – (808) 586-4294

NEVADA

Nevada State Revolving Fund:

<http://ndep.nv.gov/bffwp/srlf01.htm>

Solar Solutions:

www.solargenerations.com/

NV Waterboards SRF:

Adele Bashman – (775) 687-9488

Power Utilities Incentives:

Some power utilities offer incentives to wastewater treatment plants to move toward greater energy efficiency.

ARIZONA

APS Incentives for Biomass and

Biogas Energy—CHP:

www.aps.com/main/green/choice/choice_31.html

APS Incentives for Biomass and

Biogas Energy—Electric Generators:

www.aps.com/main/green/choice/choice_29.html

APS Incentives for Biomass and

Biogas Energy—Thermal Systems:

www.aps.com/main/green/choice/choice_30.html

Salt River Project Solar Energy Rebates:

www.srpnet.com/environment/earthwise/solarbiz.aspx

Trico Electric Cooperative SunWatts

Program:

www.trico.coop/sunwatts_information.html

Tucson Electric Power Green Energy:

www.tep.com/Green/Business/bio.asp

UniSource Energy Services:

<http://uesaz.com/Green>

HAWAII

Energy Solutions for Business

(HECO, MECO and HELCO):

www.heco.com, www.mauielectric.com

Energy Wise Commercial Energy

Efficiency Program (KIUC):

www.kiuc.coop

NEVADA

Nevada Power Solar Generations:

www.solargenerations.com

Sierra Pacific/Nevada Power SureBet

Program for Energy Efficiency:

Other Financing Solutions

There are a number of creative financing solutions when internal funding is not available. Some of those solutions are outlined in the California Energy Commission's 2000 publication, "How to Finance Public Sector Energy Efficiency Projects." (www.energy.ca.gov/reports/efficiency_handbook/400-00-001A.PDE) One successful strategy involves establishing partnerships between energy service companies (ESCOs) and municipalities/facilities for the purpose of financing and implementing cost-saving energy efficiency improvements. The ESCO pays the up front cost of purchasing and installing new equipment, and the municipalities/facilities repay the ESCO over with the cost savings achieved through the project. This strategy is an attractive approach to upgrading as it reduces the up front capital and limits potential liability and risk.

More information

Energy efficient practices and technologies can save money, water and energy. Simple upgrades like replacing old, inefficient equipment will reduce maintenance costs and our impact on the environment. For case studies and more information about efficiency practices at water and waste water treatment facilities, and more funding opportunities, visit our website:

EPA Region 9 Energy and Water Efficiency in Water and Wastewater Facilities:
<http://www.epa.gov/region09/waterinfrastructure/>

Funding Databases

Combined Heat and Power Funding Opportunities

<http://www.epa.gov/chp/funding/bio.html>

Database of State Incentives for Renewables & Efficiency

<http://www.dsireusa.org/>

Federal Funding Opportunities Energy Efficiency

http://www.dep.state.pa.us/dep/deputate/pollprev/pdf/funding_opportunities.pdf

How to Finance Public Sector Energy Efficiency Projects

http://www.energy.ca.gov/reports/efficiency_handbooks/400-00-001A.PDF

Database of all federal grants

grants.gov